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**APPLICATION  
FOR  
UNITED STATES LETTERS PATENT**

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## LIPSTICK CASE AND REFILL CARTRIDGE

### Field of the Invention:

The present invention relates to lipstick cases and, more particularly, to lipstick cases that have a refillable cartridge, refill via breech loading, are extremely durable and rigid and are attached to keyrings via a swivel o-ring.

### BACKGROUND OF THE INVENTION

For decades cosmetics have been an essential part of most women's daily beauty regimine. The problem however lies in cheaply made cases that crush, allow lipstick to melt, feel cheap, look cheap, don't protect the lipsticks sufficiently, open unexpectedly in a woman's purse, and may actually get lost in the bottom of a woman's handbag. Because lipstick cases are relatively inexpensive plastic, tin, or low grade aluminum, most consumers have little choice on a quality brand of lipstick that not only feels good, but looks good as well.

Cosmetics are traditionally a throw away product. There are many different shapes, sizes, etc. The materials used to construct the cases are typically plastic, tin, and aluminum. Some companies have come up with innovative items such as a ring on the top of the cap so the consumer can wear it on a rope or their keys.

These other cases still dont address the other problems, such as cheaply made plastic components, opening in a purse, or getting lost in a handbag. they are often cheaply made work-arounds that don't really get the job done. A woman with more refined tastes, that can afford the best is still usually stuck with cheaply made cosmetic components simply because there is nothing better available. Also, because of the cheap materials used to make other lipstick componentry, screw down caps are usually impractical or impossible due to the extreme forces acting on the material itself, causing stress fractures in the components or breakage. this leads to leaks, and non functional components.

It is therefore an object of the invention to house and protect cosmetic products.

It is another object of the invention to prevent such product from being damaged or damaging other property.

It is another object of the invention to use high end materials on a product that is typically not done .

It is another object of the invention to allow the user to attach product to their keyrings, etc.

#### SUMMARY OF THE INVENTION

In accordance with the present invention, there is provided a lipstick case and it's refill component that allows for the protection and housing of cosmetic products. the lipstick case comprises an o-ring that is used to attach lipstick case to a keyring, purse, etc. This case and it's respective refill cartridge are comprised of a

total of 7 sub-components but may be comprised from as little as six to as many as 10.

#### BRIEF DESCRIPTION OF THE DRAWINGS

A complete understanding of the present invention may be obtained by reference to the accompanying drawings, when considered in conjunction with the subsequent, detailed description, in which:

Figure 1 is a front view of a Lipstick case and refill component expanded view of all items that comprise lipstick and refill cartridge;

Figure 2 is a perspective view of a view showing assembled cartridge being inserted into body of lipstick case;

Figure 3 is a perspective view of an expanded 3/4 view of lipstick case and cartridge.;

Figure 4 is a front view of a fully assembled lipstick and cartridge; and

Figure 5 is a front view of a fully assembled lipstick case and cartridge.

For purposes of clarity and brevity, like elements and components will bear the same designations and numbering throughout the FIGURES.

#### DESCRIPTION OF THE PREFERRED EMBODIMENT

Figure 1 is an expanded front view of a fully assembled lipstick case and cartridge 44 (shown fully assembled in figure 4) in accordance with this invention. an o-ring 12, shown in figure 1 is attached to a removable or non removable o-ring 12 divot or attachment 42 shown in figure 4. This attachment is then secured to the top cap 14. This o-ring 12 can be fashioned out of any suitable material by any means and is rigid but is also able so

swivel on a limited axis. It can be any shape, round, oval, square or angular and serves to secure the lipstick case to a key ring, purse strap, etc. It has a space in the bottom with two tapered ends 56. This feature prevents the o-ring 12 from cutting material away from the o-ring 12 divot or attachment 42.

The o-ring 12 divot or attachment 42 can be removable or non removable and rigid, durable, and can be fabricated by any means, from any suitable material. It can have a hole drilled all the way through so a rope, chain, or any other instrument can be strung through. this particular iteration of the design has a small indentation drilled on each side with a retainer wall in the middle. the wall serves to stop an o-ring 12 from spinning, there by exposing a seam. The tapered ends 56 shown in figure 4 are securely clamped into these two indentations.

The top cap 14 shown in figure 1 is where the divot or attachment 42 secures into or is on top of. This top cap 14 is the first of 3 main pieces that comprise a fully assembled lipstick case 46. this cap is rigid, durable,

and can be fabricated by any means, from any suitable material and serves to not only to protect and cover a fully assembled refill cartridge 48 inside, but also to have a means by which to secure the o-ring 12 which then secures to the o-ring 12 divot or attachment 42, which then secures to the top cap 14. This top cap 14 is secured by topcap threading 34, a pressure fit, or a friction fit. This top cap 14 is then fitted and or screwed onto a body 16.

The body 16 shown in figure 1 is the second piece that comprises the fully assembled lipstick case 46. It is rigid, durable, and can be fabricated by any means, from any suitable material. this body 16 has 3 main features on it. the first feature a threading\_upper 36 shown in figure 3, the second feature, threading\_lower 38 also shown in figure 3, and a third feature, a counterbore 32 also shown in figure 3. The threading ~~body 16 upper~~ <sup>- upper 36</sup> is the place where the top cap 14 docks onto the body 16. the threading ~~body 16 lower~~ <sup>- lower 38</sup> is where an end cap 24 docks onto the body 16. these threadings can be changed to a pressure fit, or a friction fit as needed. the counterbore 32 is a retainer



lip 40 that stops a cartridge endcap 28 from sliding further up the inside of the body 16. This counterbore 32 can be a lip 40 as shown in figure 3 or can be wedge shaped as an alternative. Whereby the slot by which the fully assembled cartridge slides through, becomes increasingly smaller at the top, thereby trapping a cartridge endcap 28 inside the wedge. This body 16 serves to house the fully assembled refill cartridge 48, while allowing a spiral cut sheath 26 to rotate freely on a vertical axis inside of it.

the end cap 24 shown in figure 1 is the 3rd piece of the fully assembled lipstick case 46. It is rigid, durable, and can be fabricated by any means, from any suitable material. This end cap 24 is a critical piece of engineering to the fully assembled lipstick case 46. It has one main feature, the endcap threading 50, shown in figure 1. This end cap 24 docks onto the threading\_lower 38 body 16 and is screwed on or can also be fabricated to have a friction fit or a pressure fit. As the end cap 24 is twisted up the threading-lower body 16, it puts increasing more pressure against a cartridge endcap 28, this in conjunction with the body 16 counterbore 32 serves

to lock the cartridge endcap 28 into a locked position while still allowing the components from the fully assembled refill cartridge 48-such as the standard .477 plastic cup 20, s-cut sheath 22, and spiral cut sheath 26 to move rotationally or on a vertical axis.

A lipstick slug 18 shown in figure 1 is the overall end product that this fully assembled lipstick case and cartridge 44 is made to house, protect, and distribute. However, since it is not claimed, no more will be written on this.

A standard .477 plastic cup 20 shown in figure 1 is a critical part used in this invention, and holds the lipstick slug 18 in place. But since it comes in many different forms, and is available to any manufacturer that wants to buy it, it is not claimed in the document.

The s-cut sheath 22 shown in figure 1, is a critical part for the operation of the fully assembled refill cartridge 48 shown in figure 5. It is rigid, durable, and can be fabricated by any means, from any suitable material.

This s-cut sheath 22 gets its name due to the s-cut down both sides parallel to each other. The s-cuts provides a means by which the .477 cup divots 60 shown in figure 3, slide up and down on a locked axis. This lip 40 then slides through the spiral cut sheath 26 and then clamps into the cartridge end cap 28, shown in figure 1. What makes this particular s-cut sheath 22 special is the s-cut sheath retainer lip 58, shown in figure 5. This lip 40 serves to block the spiral cut sheath 26 from advancing further up the outside of the s-cut sheath 22 and unlike other lipsticks, it is actually above and outside the spiral cut sheath 26 as opposed to inside of it along a groove near the top. This allows stronger, non-flexing materials to be used in the construction of the lipstick case.

The spiral cut sheath 26, shown in figure 1, is another critical piece of the fully assembled refill cartridge 48. It is rigid, durable, and can be fabricated by any means, from any suitable material. This spiral cut sheath 26 is a hollow tube that slide over the s-cut sheath 22 and stops at the top of the s-cut sheath by

means of the s-cut sheath retainer lip 58. It can be rotated in a clockwise or counterclockwise fashion. spiral verical grooves are cut inside the sheath roughly the same diameter as the .477 cup divots 60. As this spiral cut sheath 26 is spun, it purshes the .447 cup divots up the grooves but due to the s-cut sheath 22, these .477 cup divots 60 can only push the standard .477 plastic cup 20 up and down on a vertical axis. The spiral cut sheath 26 is held from advancing further on its verical axis by the s-cut sheath 22 reatainer lip 40 and the cartridge endcap 28 lip 40 to fit against counterbore 32. what makes this spiral cut sheath 26 special is that it's held in place the reverse of all other products on the market. Other lipstick containers work on this principle: The sprial cut sheath is bent over, at the top, the s-cut sheath 22 to prevent the s-cut sheath 22 from advancing upward. my invention works by using the s-cut sheath 22 and the s-cut sheath retainer lip 58 to stop the spiral cut sheath 26 from advancing further.

The cartridge endcap 28, shown in figure 1, is the final piece in the fully assembled refill cartridge 48.

It is rigid, durable, and can be fabricated by any means, from any suitable material. This cartridge endcap 28 can and does use a pressure fit and a friction fit. It can also be held in place by any suitable means. The s-cut sheath 22 snaps into the cartridge endcap 28 and restricts horizontal, rotational, and vertical movement to the s-cut sheath 22. The spiral cut sheath is then allowed to spin around the stationary s-cut sheath 22. This cartridge endcap 28 has a lip 40 on it that locks against the counterbore 32 in the back of the body 16, which prevents it from moving further forward. The endcap is then screwed up the threading\_bottom, pushing the cartridge endcap 28 into a snug and secure fit against the counterbore 32.

figure 2, which is a perspective view of cartridge insertion 30 of a fully assembled refill cartridge 48 into a fully assembled lipstick case 46, with the top cap 14 and the end cap 24 removed. the top cap 14 does not have to be removed to perform cartridge insertion 30, however, the end cap 24 does have to be removed, and the screwed back on once the fully assembled refill cartridge 48 is in place.

Since other modifications and changes varied to fit particular operating requirements and environments will be apparent to those skilled in the art, the invention is not considered limited to the example chosen for purposes of disclosure, and covers all changes and modifications which do not constitute departures from the true spirit and scope of this invention.

Having thus described the invention, what is desired to be protected by Letters Patent is presented in the subsequently appended claims.